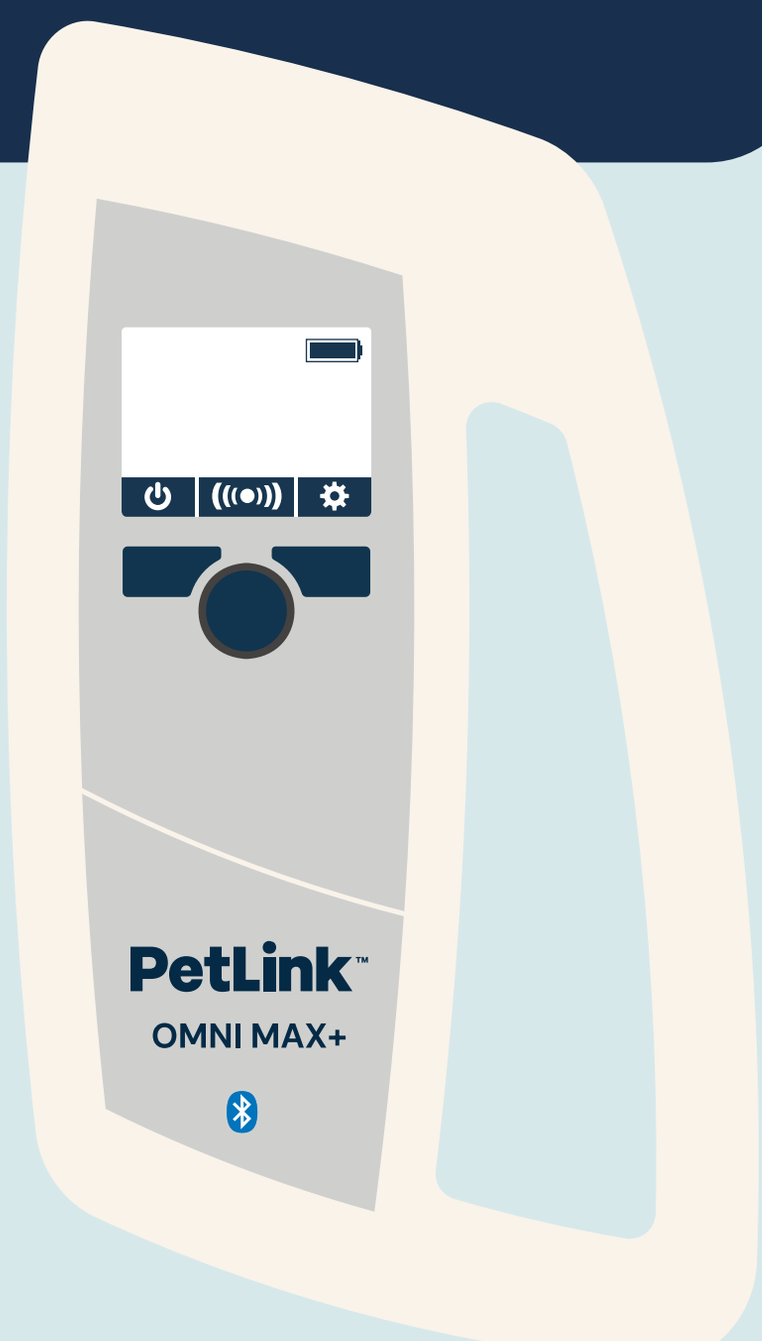
PetLink™

OMNI MAX+

User Manual

petlink.net



OMNI MAX+
User Manual

This user manual provides comprehensive guidance on the features, functionality, and operation of the OMNI MAX+ scanner, including instructions for using the accompanying mobile app.

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Introduction

The OMNI MAX+ is a universal low-frequency RFID scanner capable of reading all major animal identification microchip technologies, including FDX-B (ISO 11784/11785), FDX-A/FECAVA, Trovan, Avid Encrypted, and HDX transponders. Its full-perimeter antenna delivers outstanding read performance, providing one of the longest reading ranges in its class.

Designed for professional animal identification, the OMNI MAX+ is ideal for veterinarians, shelters, breeders, customs officers, animal welfare organizations, and animal control authorities. It can be used reliably across a wide variety of species, from small companion animals to horses or exotic animals.

The scanner stores thousands of microchip records and allows data to be managed directly on the device. Integrated Bluetooth connectivity enables scanned IDs to be transmitted instantly to paired devices, reducing manual data entry and eliminating transcription errors.

A dedicated mobile app further enhances functionality by providing an intuitive way to manage scanner settings, software updates, and stored microchip data.

The OMNI MAX+ is intended exclusively for professional use and should be operated only by trained personnel.

Getting started

UNPACKING:

Check the contents of the package and ensure that the following items are included:



OMNI MAX+ scanner



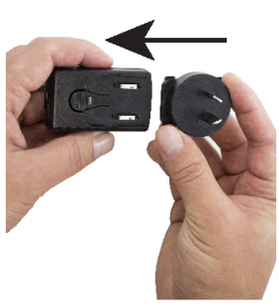
USB-C charging cable



USB power adaptor and
country specific power plug

CHARGING:

Before using the OMNI MAX+ for the first time, fully charge the scanner battery. To charge the scanner, first attach the appropriate power plug to the AC power adapter. Connect the supplied USB cable to the scanner and then plug the adapter into a power outlet.



The battery status icon on the display indicates the charging progress.

Note: *The scanner cannot perform microchip scans while charging.*

SCANNER CORRECT HANDLING AND EFFECTIVE SCANNING:

The OMNI MAX+ has been ergonomically designed to provide a comfortable grip while reducing hand fatigue during extended use. Its shape helps maintain the antenna in the optimal position relative to the animal's body, maximizing read performance. For best results, hold the scanner as shown in the illustration below.



TIPS FOR EFFECTIVE SCANNING:

1. Know the Recommended Implantation Site

Microchip implantation* locations vary by species, region, and local regulations. In many countries, microchips are commonly implanted on the left side of the neck or between the shoulder blades. Familiarizing yourself with the recommended implantation site for the animal being scanned will help improve detection rates.

2. Position the Scanner Correctly

For optimal performance, hold the scanner parallel to the animal's body (see Fig. 1) rather than pointing it directly at the animal. Keep the scanner as close to the skin as possible, allowing it to lightly contact the fur or skin when appropriate.

Move the scanner slowly and steadily over the animal's body. Because microchips can shift position over time and may be oriented in different directions, use a slow back-and-forth motion while scanning. Follow a vertical "S" pattern beginning at the neck and continuing down the animal's body or side, as shown in Fig. 1 and Fig. 2.

3. Repeat the Scan if Necessary

If no microchip is detected during the initial scan, repeat the procedure at least once. Do not limit scanning to the typical implantation site, as microchips can migrate from their original location. A thorough scan of the entire animal will help ensure the microchip is located.

** For additional information on microchip implantation and scanning best practices, visit the World Small Animal Veterinary Association (WSAVA) website at www.wsava.org.*

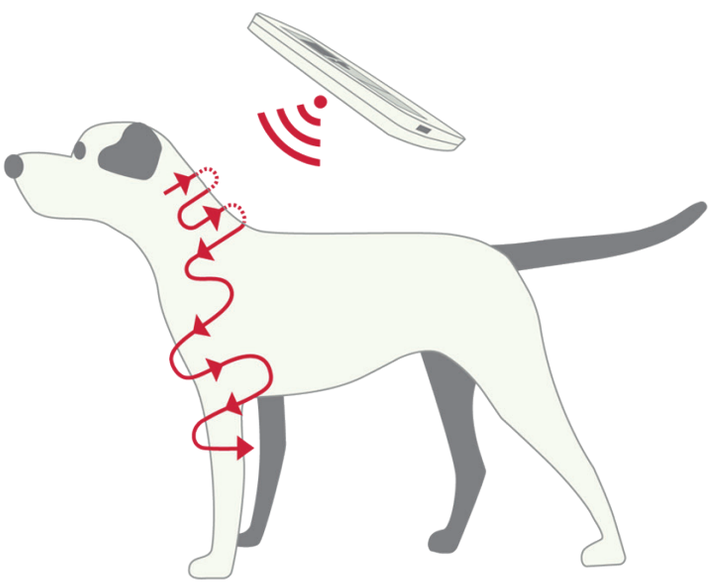


Fig. 1

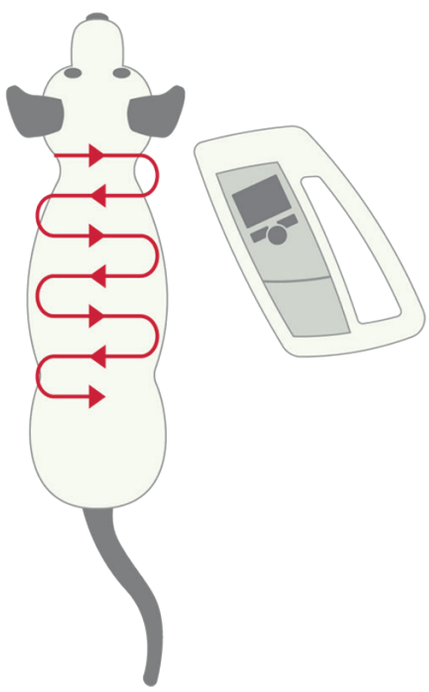
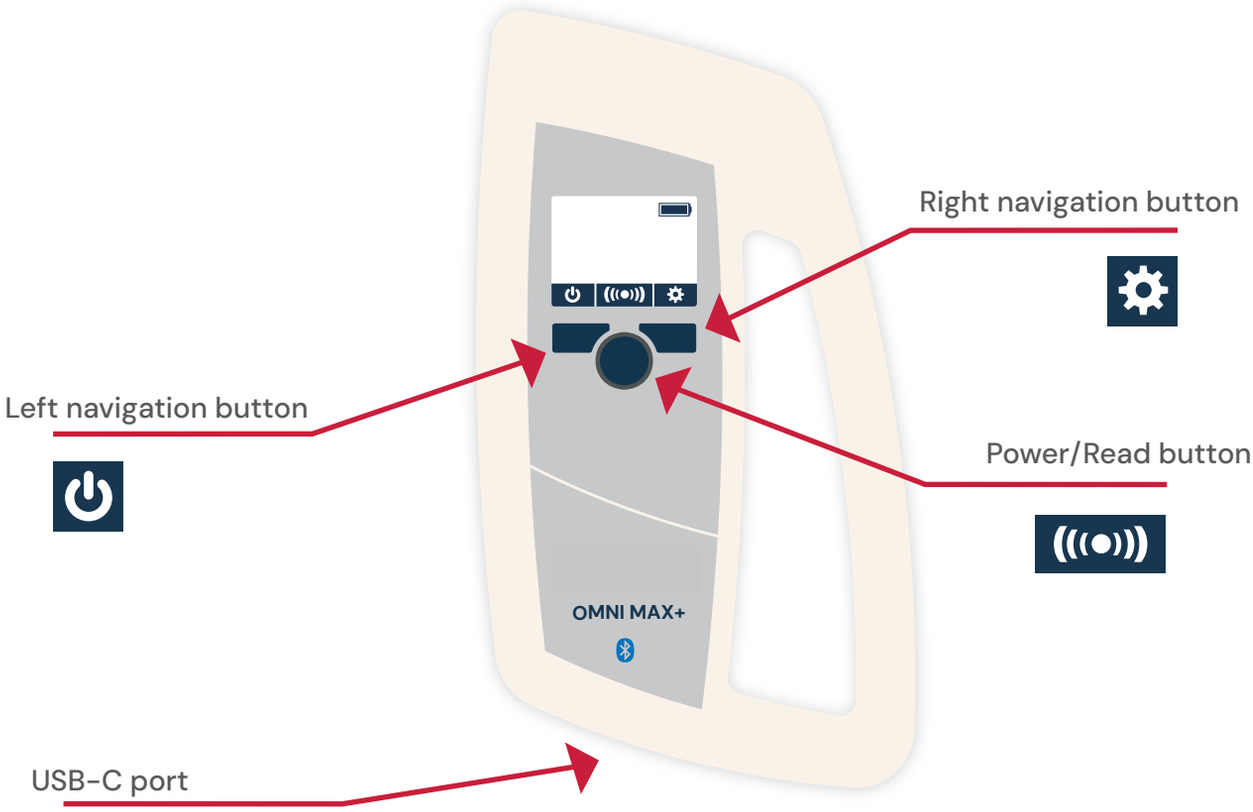


Fig. 2

TURN THE SCANNER ON:

To power on the OMNI MAX+, press the Power button (the large blue button located in the center of the keypad) once. The scanner will perform a brief startup sequence and will be ready for use when the main screen appears.

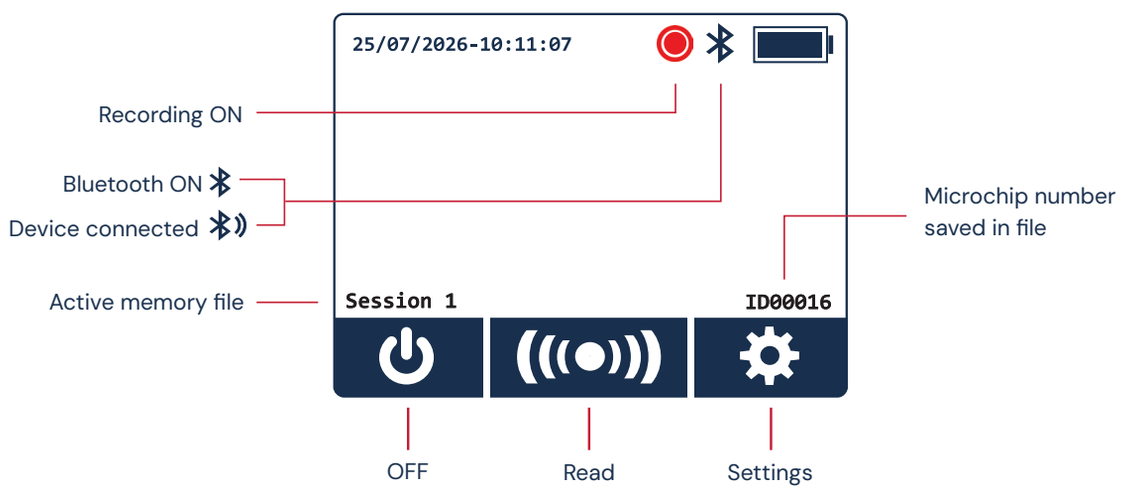
Note: *Ensure the battery is sufficiently charged before operating the scanner.*



THE HOME SCREEN:

When the OMNI MAX+ is powered on, the Home Screen is displayed. From this screen, press the Right Navigation button to access the scanner's settings and configuration menus, which are described later in this manual.

Status icons are displayed in the top bar of the Home Screen. When the REC (Record) function or Bluetooth® connectivity is enabled, the corresponding icon will appear, allowing you to quickly view the scanner's current operating status.



Scanning and Reading a Microchip ID

To begin scanning, ensure the OMNI MAX+ is powered on and displaying the Home Screen. Press the Scan button (the large blue center button) and position the scanner close to the animal's skin or fur.



When a microchip is detected, the scanner emits an audible beep and displays the microchip ID on the screen. By default, the ID is shown in the 15-digit ISO format. Depending on the microchip type, additional information may also be displayed, including the manufacturer or country code and the RFID technology detected.
If no microchip is found during the scanning session, the message "Tag Not Found" will appear on the display.
The default scanning duration is 60 seconds. This setting can be adjusted using the Datamars Pet Scanner Support mobile app.



15 digits



Microchip not detected

To end the scanning session before the timeout period expires, press the Scan button again.

To save microchip IDs during a scanning session, enable the REC (Record) function in the Settings menu. When REC is enabled, the REC icon appears in the Home Screen status bar, indicating that scanned microchip IDs will be automatically stored in memory.
Scanned IDs are saved to the currently selected session. The active session name (see Fig. 3) is displayed on the Home Screen, allowing you to verify where records will be stored before you begin scanning.

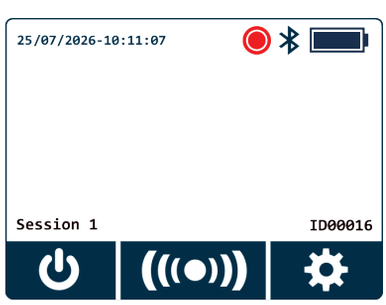
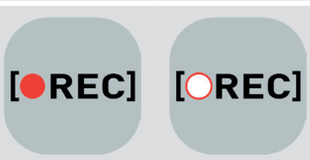


Fig. 3

Scanner settings

The Settings Menu allows you to configure and customize the operation of your OMNI MAX+ scanner.
From the Home Screen, press the Right Navigation button to access the Settings Menu. The available settings are displayed as icons, each representing a specific function or configuration option.The following icons are available within the Settings Menu:

ICON LEGEND	
	Bluetooth® ON/OFF
	Info: Product name, firmware, S/N and bootloader versions
	Memory management (Session files)
	Enable / disable downloading memory files to PC via USB
	Set date and time
	Turn microchip read sound ON/OFF
	Bluetooth connection via KB wedge or Mobile APP
	Memory File enabled (recording) Memory File disabled (no recording)

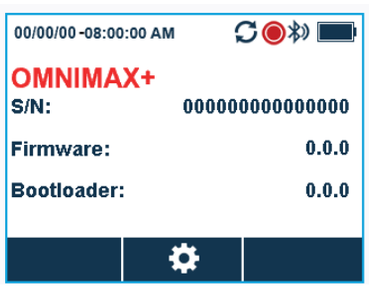
SETTING DETAILS AND ICON EXPLANATION

Bluetooth®

Use this setting to enable or disable Bluetooth. Bluetooth is set to OFF by default the first time the scanner is powered on. After that, the scanner will retain the Bluetooth ON/OFF setting selected during the previous use each time it is powered on.

Information

Select the Information icon to view important device details, including the scanner name, serial number, firmware version, and bootloader version. The scanner name can be customized using the companion mobile app. This information may be required when troubleshooting or contacting technical support, or resolving Bluetooth® pairing issues.



REC (Record)

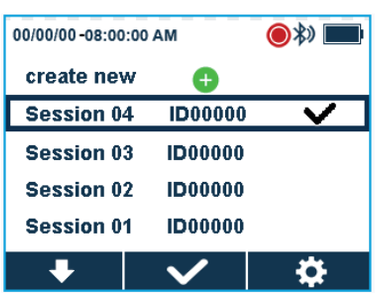
The REC function enables the scanner to save scanned microchip IDs to its internal memory. To turn recording on or off, select this option by pressing the Power button.
When REC is enabled, the REC icon is displayed in the Home Screen status bar, indicating that scanned IDs will be automatically stored.

Note: *The first time the REC function is enabled, a session named "Session 1" is automatically created. All scanned microchip IDs will be saved to this session until a new session is created.*

Memory Management

Selecting the Memory Management icon gives you access to the scanner's stored data. From this menu, you can view and manage all recorded microchip IDs saved in the scanner's internal memory.
Memory management is organized into three levels: the Session List, the Session Content, and the Microchip Record Detail.

Session list:



The Session List displays all sessions stored on the scanner. The active session, which is the session currently receiving newly scanned microchip IDs, is highlighted for easy identification.

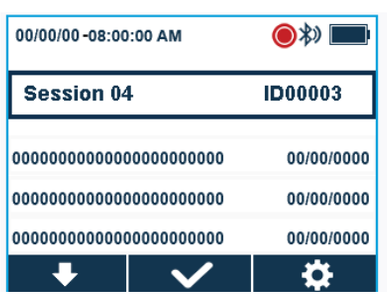
- **Left Navigation Button:**
  Scroll through the list of available sessions. The on-screen arrow indicates the current navigation direction. To reverse the scrolling direction, press and hold the button for a few seconds.

- **Center button:**
  Press to open the selected session and view its stored microchip records, displayed from newest to oldest. Press and hold to set the selected session as the active session. All newly recorded microchip IDs will then be saved to that session.

- **Right Navigation Button:**
  Return to the Settings Menu.

- **Create New Session** ⊕
  Creates a new session automatically named “Session #”, where # corresponds to the next available sequential number. The new session is added to the top of the session list and automatically becomes the active session.

Session content:



The Session Content screen displays all microchip IDs stored within the selected session. The top line shows the session name and the total number of microchip records saved in that session.
Selecting the first row opens the Session Management menu, where you can perform the following actions:

- **Delete Session:**
  Permanently delete the selected session and all microchip records it contains.

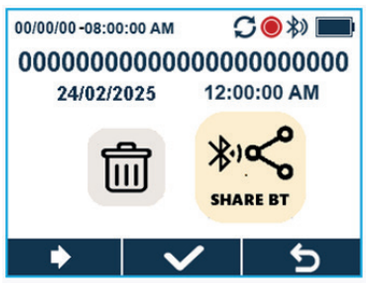
- **Share Session:**
  Transmit all records from the session using Keyboard Wedge (KBW) mode. This option is available only when the scanner is connected to a compatible device in KBW mode.

- **Remove Duplicates:**
  Delete duplicate microchip records within the session. When duplicates are removed, only the most recently saved record for each microchip ID is retained.

Use the Back button to return to the Session List.

NOTE: *Session names can only be modified using the companion mobile app. For example, a session may be renamed to "Competition 1" or "Shelter Intake." Renaming a session does not affect its position in the session list; sessions retain their original chronological order.*

Single microchip Record:



Selecting a microchip ID opens the Record Details screen, which displays the date and time the microchip was saved to memory.

From this screen, you can:

- **Delete Record:**
  Remove the selected microchip ID from the scanner's memory.

- **Share Record:**
  Transmit the selected microchip ID using Keyboard Wedge (KBW) mode when the scanner is connected to a compatible device via Bluetooth.

Memory Full Notification:

When the scanner's memory reaches 90% of its storage capacity, a warning message is displayed each time the scanner is powered on. If this notification appears, delete any sessions or records that are no longer needed to free up memory and continue recording new microchip IDs.

Mass Storage (Data Export)

The OMNI MAX+ allows you to export stored microchip records to a computer in CSV format for viewing, archiving, or further processing.

To export data:

1. Connect the scanner to a computer using the supplied USB cable.
2. From the Settings menu, select the Download Memory File to PC icon and press the Power button to enable the function.

Once enabled, the scanner operates as a USB storage device, allowing you to access and copy the exported data file directly to your computer.

The exported .CSV file contains the following information for each saved record:

- Session name
- Date
- Time
- Microchip ID

Any changes made to the exported CSV file on your computer will not affect the data stored in the scanner's memory.

NOTE: *When connected to a computer via USB-C, the OMNI MAX+ automatically begins charging. While connected, you can access stored data and navigate the scanner menus; however, new microchip scans cannot be performed. To resume scanning, disconnect the USB cable from the scanner.*

Date and time:

The scanner's date and time can be set manually through the Date and Time menu. When connected to the companion mobile app, the date and time can also be synchronized automatically. Accurate date and time settings are important, as they are used to timestamp all saved microchip records.

Important: *Do not set the scanner's date and time to a value earlier than the timestamp of the most recently saved record. If the date or time is moved backward past existing records, the scanner will prevent new microchip IDs from being saved to memory. In this case, the scanner will prompt you to delete any records dated after the newly selected date and time before recording can resume.*

Bluetooth connection

The OMNI MAX+ features integrated Bluetooth Low Energy (BLE) technology, providing reliable, low-power wireless connectivity to smartphones, tablets, computers, and other compatible Bluetooth-enabled devices.
Before pairing the scanner, select the desired connection mode. The scanner can communicate with target devices in two different ways*, and the correct mode must be selected prior to pairing.

Connection modes

Keyboard Wedge (KBW) mode (Default):
In KBW mode, the scanner appears to the connected device as a Bluetooth keyboard. When a microchip is scanned, the ID is automatically entered wherever the cursor is active, such as a text field, spreadsheet, database, or web form. No additional software or configuration is required on the target device.

Mobile App Mode:
In Mobile App mode, the scanner can be connected to the Datamars Pet Scanner Support app. This mode is used for managing scanner settings, stored records, device information, and firmware updates. Please note that scanned microchip IDs are not transmitted to the connected device while the scanner is operating in Mobile App mode.

Changing the Connection Mode:

To switch between connection modes, navigate to the Connection Mode icon and press the Center button. The displayed icon indicates the currently selected mode.

NOTE: *Changing the connection mode automatically restarts the scanner. After the restart, you will be returned to the Home Screen, and the new mode will be active.*

Connecting via Bluetooth in KBW mode:

1. Ensure Bluetooth is enabled on both the scanner and the target device (smartphone or PC), and that both devices are within Bluetooth range.
2. Open the Bluetooth settings on your smartphone or PC.
3. From the list of available devices, select “OMNI MAX+”. By default, the scanner name appears as “OMNI MAX+” followed by the scanner’s serial number.
4. Once pairing is successful, a Bluetooth icon with two waves will appear in the top status bar of the scanner, confirming that the connection has been established.

Important: *After use, always unpair the devices (Android) or remove/forget the scanner from the Bluetooth settings of the target device. If the scanner remains paired, it will automatically reconnect whenever it is powered on and within range of the previously connected device. When an active connection already exists, the scanner cannot connect to a different device. Attempting to force a new connection will cause the Bluetooth icon to blink, and neither connection will be successfully established.*

Connecting in Mobile App mode:

1. Set the scanner’s connection mode to Mobile App.
2. Ensure Bluetooth is enabled on the scanner.
3. Open the Datamars Pet Scanner Support app and select Connect New Scanner.
4. Locate your scanner in the device list and tap Connect.
5. When pairing is successful, the Bluetooth icon with two waves will appear in the top status bar.

* ***NOTE:*** *This technology is not backward compatible with previous applications, including those developed by third parties or clients, as it uses a different communication protocol.*

"Datamars Pet scanner support" App

Download the free Datamars Pet Scanner Support app from the Google Play Store or Apple App Store.



The app enhances your scanner experience by allowing you to:

- View and install software updates
- Rename your scanner
- Manage scanner memory:
  - Share saved records
  - Export data as a .CSV file
  - Delete individual or multiple records
  - Remove duplicate scans of the same microchip within a session
- Search for microchips in supported databases or online search tools
- Configure basic and advanced scanner settings

Keeping your scanner updated:

Both the scanner and the app are continuously improved to provide the best user experience. When a new software version is available, the app will notify you and guide you through the update process. We recommend installing updates as soon as they become available to ensure optimal scanner performance and access to the latest features.

Important: *The scanner battery must be above 20% before a software update can be installed. If the battery level is below 20%, charge the scanner before starting the update.*

Settings:

The App allows you to:

- Automatically synchronize the scanner's date and time with your smartphone.
- Rename your scanner. By default, the scanner name is OMNI MAX+ followed by its serial number.
- View key scanner information in the Info section, including:
  - Serial Number
  - Firmware version
  - Bootloader version
- Configure scanner settings, including:
  - Reading time
  - Auto shutoff
  - Screen timeout
  - Icon descriptions
  - Audible notification when a microchip is read

Scan and search:

The Scan and Search feature allows you to read a microchip and search for it in supported databases in a single step.
Once you open this section, a scanning session can be started from either the scanner or the app. When a microchip is read, the app automatically searches the supported databases and displays the result.
If a matching record is found, you can open the corresponding database directly from the app and access the available information.

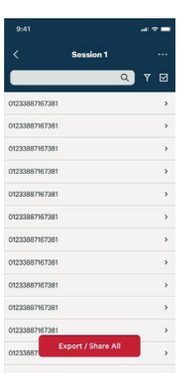
Saved microchips:

The Saved Microchips section provides access to all microchips stored in the scanner's memory.
Sessions are displayed from newest to oldest and show:

- The number of microchips saved in each session
- The date of the most recent entry

Within each session, microchips are listed in reverse chronological order, from newest to oldest.

- ## Session Management:



To manage a session, tap the three-dot menu in the upper-right corner.
From there, you can:

- Rename the session
- Delete the entire session
- Remove duplicate microchip entries within the session

- **Microchip Details:**

  Selecting a microchip entry displays:

  - The microchip number
  - The date and time of the scan

  From this screen, you can:

  - Delete the entry
  - Search for the microchip in supported databases

  Note: *Actions that modify scanner memory, such as renaming or deleting sessions and entries, are only available when the app is actively paired with the scanner and is not being used in View Mode.*

Search History:

Every time a microchip number is searched in a supported database, the search is automatically saved in the Search History section of the app.
Search History remains available even when the scanner is not connected, allowing you to review previous searches at any time.

View mode:

View Mode allows you to access scanner data when no scanner is connected, including when the scanner is not with you.

The app stores a local copy of the scanner's memory from the last successful connection, enabling you to view and work with existing data offline.
In View Mode, you can:

- Browse sessions and microchip records from the last synchronization
- Search microchip numbers in supported databases
- Review previous searches in Search History

In View Mode, actions that modify scanner memory are disabled. This includes:

- Deleting records or sessions
- Renaming sessions
- Updating scanner settings

The data displayed in View Mode reflects the scanner's memory at the time of the last connection. Any microchips scanned afterward will not appear until the scanner reconnects and synchronizes with the app.

Maintenance and servicing

Software updates:

To ensure optimal performance, keep your scanner software up to date. Connect the scanner to the Datamars Pet Scanner Support app. If an update is available, a notification will appear on the app's home screen. Select "Update" and follow the on-screen instructions to complete the installation.

Scanner Care:

Follow these guidelines to keep your scanner in good working condition:

- Clean the scanner with a soft, damp cloth.
- Do not use cleaning products that may damage the housing or screen.
- Do not immerse the scanner in water.
- Avoid exposure to extreme temperatures, such as leaving the scanner on a vehicle dashboard.
- Store the scanner in a cool, dry place.
- Keep the dust cap fitted whenever cables are not connected to protect the charging port from moisture and dirt.

Service and Repairs:

If your scanner is not functioning properly, do not attempt to repair it yourself. Contact orders@petlink.net for repair instructions.

Regulatory Compliance

United States of America
Federal Communications Commission (FCC)

Changes or modifications not expressly Approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

RF exposure safety

This device complies with the FCC RF exposure limits and has been evaluated in compliance with portable exposure conditions.
There are no restrictions regarding the distance of the device to the user.

Compliance with FCC rule part 15B

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Supplier's Declaration of Conformity according to Chapter 1, Subpart A, Part 2 of Title 47 of the Code of Federal Regulations
This device, model OMNI MAX+, complies with the Applicable requirements of FCC Rule Part 15B for the corresponding equipment classes of Unintentional Radiators.

Datamars, Inc.
1110 Industrial Boulevard,
Temple, 76504,
Texas, USA

Canada
Innovation, Science and Economic Development Canada's (ISED) - English

Changes or modifications not expressly Approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with ISED Radio Standards Specifications RSS-Gen, RSS-247, RSS-210, RSS-102.

RF exposure safety

This device complies with the ISED RF exposure limits and has been evaluated in compliance with portable exposure conditions.
There are no restrictions regarding the distance of the device to the user.

Compliance with Interference-Causing Equipment Standard

This Class B digital Apparatus complies with ICES-003 - Information Technology Equipment (including Digital Apparatus).

Innovation, Sciences et Développement économique Canada (ISDE) - Français

Les changements ou modifications non expressément Approuvés par la partie responsable de la conformité peuvent annuler l'autorisation de l'utilisateur à utiliser l'équipement.
Cet Appareil est conforme aux spécifications des normes radio ISDE CNR-Gen, CNR-247, CNR-210, CNR-102.

Sécurité d'exposition aux RF

Cet Appareil est conforme aux limites d'exposition aux RF d'ISDE et a été évalué conformément aux Conditions d'exposition portable.
Il n'y a aucune restriction concernant la distance entre l'Appareil et l'utilisateur.

Conformité aux Normes sur le matériel brouilleur

Cet Appareil numérique de Classe B est conforme NMB-003 - Équipement de technologie de l'information (incluant les Appareils numériques).

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PetLink™

Datamars INC

345 West Cummings Park
Woburn, MA 01801
United States
Phone +1 781 281 2216
Fax + 1 781 300 7330